Volume 5

THE MONTHLY NEWSLETTER FOR ENERGY MANAGERS AND PUBLIC AF AIRS OFFICERS Issue 11

#### Message To **Energy Managers:**

Innovation and efficiency are the hallmarks of this year's Navy and Marine Corps Federal Energy and Water Management winners. Congratulations!

Be prepared. Don't miss the next CECOS training course. Get your winter weather preparations finalized. Check out the trends in energy innovations.

Congratulations also to MCLB Barstow, winner of the 2000 SECNAV Energy Award in the Marine Corps Small Activity Category.

Sincerely,

William F. Tayler **Navy Shore Energy Program Manager** 

## **More Than One of Every** Five Federal Awards Go to DON

The Department of the Navy captured nine of the 42 "2000 Federal Energy Management Program" (FEMP) awards going to Federal agencies for FY99 achievements. The Awards are given to Federal facility managers and contributors who have made notable efforts to reduce the consumption of energy or have developed and demonstrated innovative energy conservation technologies. Winners were selected from 145 nominations. These U.S. Department of Energy awards were presented at a ceremony 12 October 2000 at the Hotel Washington in Washington, DC.

"You are saving energy, conserving water, and implementing innovative practices and technologies," the keynote speaker, David Leiter, Principal Deputy Assistant Secretary for Energy Efficiency and Renewable Energy, U.S. Department of Energy, told the award winners. "Just last year, you exceeded the fiscal 2000 goal a year early...It's unusual for government to have a challenge of that sort and meet it early. Your achievement means U.S. taxpayers have paid \$2.2 billion less for energy over the last 15 years. Today, the Federal interagency energy policy committee and the Department of Energy recognize you for your outstanding contributions-for what you've done to save taxpayers' dollars."

Following a luncheon, Beth Shearer, Director of DOE's Federal Energy Management Program (FEMP), presented the awards.

#### Renewable Energy Award to a Small Group

SAN CLEMENTE ISLAND TURBINE TEAM

The team of S. Brian Cable and Guy Urata (Naval Facilities Engineering Service Center), Scott W. Davis and Vilay Joyce Sengpaseuth (Navy Public Works Center San Diego), and H. Edward McKenna (National Renewable Energy Laboratory) won for their successful wind turbine project on San Clemente Island. Three 225-kilowatt turbines are expected to provide at least 15 percent of the island's electric power.

#### Energy Efficiency/Energy Management Award to a **Small Group**

TEAM SEMP

Station Energy Manager, Randy Sawyer, and PWC Energy Engineer, Bev Thompson, at Naval Weapons Station Yorktown Virginia, heading up the Total Energy Asset Management—Strategic Energy Management Program (TEAM SEMP), won for attacking untapped areas of energy reduction: awareness, training, and employee participation. One notable objective is the development of an Internet-based energy training course.

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DON Energy Awareness Website: Access the tools on the Navy Energy website for ideas, planning tips, and tools. Set your browser to http://energy.navy.mil and scroll down the left-hand column to the Awareness pick.

## Exceptional Service Award to an Individual

Larry Emmons, Energy Manager at Marine Corps Logistics Base (MCLB) Barstow, CA, won for leading the energy saving projects at the base. (MCLB Barstow is a SECNAV winner—See write-up on page 3.)

#### Exceptional Service Award to an Organization

NAVY ENERGY PROJECT DEVELOPMENT AND EXECUTION TEAM

The Navy's Energy Project Development and Execution Team consists of representatives from the Naval Facilities Engineering Service Center, Naval Facilities Engineering Command Headquarters, Public Works Center (PWC) Norfolk, PWC Jacksonville, PWC Great Lakes, PWC San Diego, Naval Facilities Contracts Office, Puget Sound Naval Shipyard, and the Atlantic, South, Southwest, and Pacific Engineering Field

Divisions of the Naval Facilities Engineering Command. In 1999, the Team executed 17 Energy Conservation Investment Program projects totaling \$21.2 million with \$86.5 million in projected life-cycle savings. The Team also executed 28 alternatively-financed projects with utility companies and energy service companies investing \$78 million, which is expected to yield \$85.5 million in life-cycle net-present-value savings to the Government.

## Renewable Energy Award to an Organization

NAVAL SURFACE WARFARE CENTER (NSWC) DAHLGREN SOLAR PROJECTS
With partial funding from FEMP, NSWC
Dahlgren installed state-of-the-art evacuated tube collector solar water heating systems on three buildings, providing hot water to approximately 121 people.
Dahlgren also funded and installed the largest photovoltaic lighting system for a parking lot in the entire Department of the

Navy. Twenty-four poles provide support for 36 lights, which distribute light across the parking lot more evenly than anticipated, and meet the Navy minimum average guideline of 0.5 footcandles. Installation of the solar lighting offset costs for underground wiring and conduit, which would have been required.

#### Energy Efficiency/Energy Management Awards to an Organization

Atlantic Test and Evaluation Center (AUTEC) and Navy Region Pensacola won both a FEMP and SECNAV award. (See write-up under SECNAV winners in last month's issue.)

## Mobility Energy Awards to an Organization

USS BONHOMME RICHARD (LHD 6) and Fleet Logistics Support Squadron FIFTY-EIGHT (VR-58) won both a FEMP and SECNAV award. (See write-up under SECNAV winners in last month's issue.)

#### DON'T SING THE WINTER BLUES!

HVAC system improvements offer the greatest potential for energy savings in most facilities. Now that winter is here, be prepared by taking the following steps:

· Check regularly with your building's

occupants about their comfort, noting any problems, including uncomfortable temperature, drafts, mold and mildew, excessive or inadequate humidity, and suspected indoor air quality problems. Depending on the cause of discomfort, undertake simple repairs, or put in a work order request, e.g., to repair or replace broken window panes, install missing blinds on windows, and install plastic strip curtain barriers in industrial open bay applications. Thermostat adjustments may be in order. If these actions aren't practical, report problems to the appropriate personnel.

- Periodically check exterior windows and doors to reduce air infiltration. Replace dried or peeling caulk and weatherstripping and apply new material where needed. Infiltration not only causes discomfort to building occupants, but is also a major contributor to energy losses and unnecessary heating costs in the winter.
- Make sure all exterior doors and windows are closed when heat is on and investigate when they are left open. Sometimes signs help to remind occupants to close doors.

- Inspect for air leakage in and around electrical outlets.
   Rubber inserts are generally available through self-help to seal leaky outlets.
- If your building has any unheated rooms or areas, keep doors closed to prevent infiltration to conditioned spaces.
- Portable floor heaters are an energy (and safety!) nightmare at a number of facilities. Find out about your Command's policy on floor heaters. If they require a doctor's slip or are outright banned, see that the regulation is enforced. Portable heaters suck up a lot of amps, they are dangerous, and they put a lot of load on the already taxed building electrical system. If they are allowed, consider implementing a campaign to retire them. Naval Surface Warfare Center, Crane's "Help Save Energy" campaign was successful in exchanging electric heaters for coffee mugs.
- · Make sure heating vents are not obstructed.
- Cover or remove window air conditioners during the heating season.
- If your building has a loading dock, make sure its door is closed when not in use.
- If you notice any steam or hot water leaking from the heating system, report immediately.
- Steam heating systems need insulation. If you see any insulation missing or in poor repair, submit a work order.

# SECNAV ENERGY AWARD WINNERS

Secretary of the Navy
Honors Barstow for
Energy-Saving
Achievements

MCLB Barstow is the winner of the FY99 Secretary of the Navy Energy Award in the Marine Corps Small Activity Category – receiving a monetary award of \$30,000 and the privilege of flying the SECNAV energy flag for one year.

In addition, Larry Emmons, Barstow's Energy Manager, won a 2000 Department of

Energy (DOE) Federal Energy Management Program (FEMP) Exceptional Service Award to an Individual.

Marine Corps Logistics Base (MCLB) Barstow, CA, teamed with Southern California Edison's ENVEST to develop and implement energy conservation projects. Barstow implemented \$4.2 million in projects over the past three years, producing a savings of \$650,000 in FY99.

In partnership with Southern California Edison, Barstow performed studies in FY96 and FY97, identifying \$8.2 million in energy conservation opportunities. The \$4.2 million in projects implemented over the past three years include lighting retrofits, satellite boilers, energy-efficient motors, and an energy management control system (EMCS) in high energy use buildings. The net result of these projects was a savings of \$650,000 in FY99.

MCLB participates in the Defense Energy Support Center spot market purchasing of natural gas and electricity deregulation programs. The Defense Logistics Agency sent a letter of commendation to MCLB Barstow for play-

ing a particularly large role in achieving a savings cost avoidance of \$125,400 in FY99.

Larry Emmons works closely with the local utility, base public relations, and local newspapers to promote energy saving ideas for family housing and office personnel to aid MCLB Barstow in achieving its energy goals. Barstow audited nearly five million square feet of the base as part of a utility demand side management water conservation study. In addition, 90% of Building Energy Monitors have been fully trained.

For more information, contact Larry Emmons at 760-577-6739, DSN 282-6739, E-mail: EMMONSLG@barstow.usmc.mil



### GET ON TRACK WITH CECOSTRAINing

The Civil Engineer Corps Officers School (CECOS) held its first facilities energy management training in FY01 on 6-9 November 2000 in Port Hueneme, California. 41 Energy Managers from the Southwest and Northwest regions attended the course.

Have you attended the CECOS training course yet? If not, sign up now for the next upcoming session.

Funding to attend the course is available

PACIFIC REGION

8-12 January 2001 in Wiapahu, Hawaii

SOUTHERN REGION

19-23 March 2001 in Pensacola, Florida

**EUROPEAN REGION** 

7-11 May 2001 in Sicily, Italy

ATLANTIC REGION

9-13 July 2001 in Norfolk, Virginia

through CECOS and covers registration fees, travel, and per diem.

You are eligible for training if you are the designated activity energy manager or involved with the DON Energy Program.

To obtain the Training Fax Request Form or for further information, contact Mr. Gil Siqueido at 805-982-4245 DSN 551, or visit the CECOS web site at http://www.cecos.navy.mil.



"We're on the cusp of some major, fundamental changes in energy. In fact, it's already starting," said Dr. Steve Millett, Thought Leader and manager of Battelle's forecasts.

A changing energy scene is certainly no news to you. Over the past decade, you've seen the rise of many energy products, such as direct digital controls and T-8 lamps with electronic ballasts. These products are now everyday commonplace items. But what's coming down the pike in the next decade?

Energy experts from Battelle and the national laboratories that it manages and comanages for the U.S. Department of Energy (including Pacific Northwest National Laboratory, Brookhaven National Laboratory, Oak Ridge National Laboratory and the National Renewable Energy Laboratory) make their predictions, based on economics, R&D, worldwide environmental regulation, consumer behavior and preferences, national energy policy, and liability and legal issues.

An expert focus group from Battelle and its labs have identified the top ten most economically important energy innovations by the year 2010:

- 1. A shifting energy industry structure
- 2. Hybrid-electric vehicles
- 3. Smart energy management systems
- 4. Distributed power generation
- 5. Fuel cells

- 6. Gas to liquid conversion
- 7. Advanced batteries
- 8. Energy farms (growing crops for fuel)
- Solar energy
- 10. Methane hydrate crystal mining

If you would like to know more about these forecasts, set your browser to http://www.battelle.org/ and select News releases (for 2000), then BATTELLE EXPERTS FORECAST THE TOP TEN ENERGY INNOVATIONS FOR 2010. Or to learn more about other Battelle forecasts, select Technology Forecasts.

## energized

## Watts News? We want to hear from you.

Tell us about the energy initiatives you're working on, the problems you encounter, and the solutions you discover.

Submit article ideas, comments, or questions to:

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Be sure to include your name and commercial phone number.

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ENERGY ESCIENCY

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